

WE CLAIM:

CLAIMS

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1. A method for reducing the effects of spurious frequencies in a wireless communications device, the method comprising: providing a plurality of selectable passband ranges for the wireless communications device;

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selecting one of the passband frequency ranges; determining a clock frequency that produces no substantial spurious signals in the selected passband frequency range; adjusting a clock to generate a clock signal at the clock frequency; and,

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driving a processor with the clock signal.

2. The method of claim 1 further comprising:

providing a cellular passband frequency range and a PCS passband frequency range.

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3. A method for avoiding spurious frequencies in the transceiver passband of a wireless communications device, the method comprising:

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generating a clock signal at a clock frequency, the clock signal having a plurality of harmonics, each harmonic having a harmonic frequency;

generating a transceiver carrier signal at a carrier frequency;
and,

selecting the clock frequency so that none of the harmonic
frequencies is substantially equal to the carrier frequency.

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4. The method of claim 3 wherein generating a
transceiver carrier signal at a carrier frequency includes generating a
transceiver carrier signal having a center frequency of approximately 900
megahertz (MHz);

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the method further comprising:

initially generating a clock signal at a frequency of 19.2
megahertz (MHz) with a 46th harmonic at 883.2 MHz; and,

wherein selecting the clock frequency so that none of the
harmonic frequencies is substantially equal to the carrier frequency

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includes increasing the clock frequency from 19.2 MHz to 26.24 MHz.

5. A method for reducing the effects of clock harmonics in
the passband of a wireless communications device, the method
comprising:

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generating a clock signal at a clock frequency, the clock
signal having a plurality of harmonics, each harmonic having a harmonic
frequency;

generating a transceiver carrier signal at a carrier frequency;

and,

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changing the clock frequency so that none of the harmonic
frequencies is substantially equal to the carrier frequency.

6. A method for reducing the effects of clock harmonics in the passband of a wireless communications device, the method comprising:

5 generating a microprocessor clock signal at a clock frequency, the clock signal having a plurality of harmonics, each harmonic having a harmonic frequency;

generating a transceiver carrier signal at a carrier frequency, wherein the clock frequency is not substantially equal to any of the
10 harmonic frequencies;

changing the carrier frequency to a second carrier frequency, wherein the second carrier frequency is to be substantially equal to one of the harmonic frequencies; and

changing the microprocessor clock frequency to a new clock
15 frequency wherein the new clock frequency does not have any harmonic frequencies that are substantially equal to the new carrier frequency.

7. A system for reducing the effects of spurious frequencies in a wireless communications device, the system comprising:

20 a microprocessor having a reference frequency input;
a clock having an output connected to the microprocessor input, and an input for selecting clock frequencies;

a transceiver having a port to transceive a plurality of selectable communication passbands in response to selection commands
25 received at an input; and,

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conc.

The following are the names of the persons who have been elected as members of the Board of Directors of the American Society of International Law.